

## Material: EN 1.7218

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 1.7218 Seamless Steel Tubes for Pressure Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Steel and Tube

| Chemical Composition |      |               | Heat Treatment          |            |
|----------------------|------|---------------|-------------------------|------------|
| Carbon               | C %  | 0.220 - 0.290 | Quenching + Tempering   |            |
| Silicon              | Si % | 0.400 max.    |                         |            |
| Manganese            | Mn % | 0.600 - 0.900 |                         |            |
| Phosphorus           | P %  | 0.035 max.    |                         |            |
| Sulphur              | S %  | 0.035 max.    |                         |            |
| Chromium             | Cr % | 0.900 - 1.200 |                         |            |
| Molybdenum           | Mo % | 0.150 - 0.300 |                         |            |
| Iron                 | Fe % | Balance       |                         |            |
| -                    | -    | -             | Mechanical Properties   |            |
| -                    | -    | -             | Tensile Strength in Mpa | 540 - 1400 |
| -                    | -    | -             | Yield Strength in Mpa   | 345 - 440  |
| -                    | -    | -             | Elongation in %         | 4 min.     |
| -                    | -    | -             | Reduction of Area in %  | 50 min.    |
| -                    | -    | -             | Hardness in HB          | 270 max.   |
| -                    | -    | -             | Impact in Joule         | 22 J @ RT  |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| 10216-2               | BS       | British       | Steel and Tube               |
| 1.7218                | DIN      | Germany       | Steel and Tube               |
| 25 CrMo 4             | AFNOR NF | France        | Steel and Flat               |
| 25 CrMo 4             | BS       | British       | Steel                        |
| 25 CrMo 4             | DIN      | Germany       | Steel                        |
| 25 CrMo 4             | ISO      | International | Steel and Tube               |
| 25 CrMo 4             | UNI      | Italy         | Steel and Tube               |

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